

### REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The final Office Action dated May 5, 2010 has been received and its contents carefully reviewed.

Claims 1 and 11 are hereby amended. Accordingly, claims 1, 5-11, 13-14 and 16-19 are currently pending. Reexamination and reconsideration of the pending claims are respectfully requested.

In the Office Action, claims 1, 5-11, 13, 14 and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Naito (US Patent 6,462,735) in view of Kang (U.S. Pub. No. 2002/0063666), Mizukoshi (US Patent No. 6,919,691), and Jun (EP 1638071 A2). This rejection is respectfully traversed and reconsideration is requested.

Claim 1 is allowable over the cited references in that claim 1 recites a combination of elements including, for example, “wherein the timing controller includes a look-up table which receives Red, Green and Blue N-bit digital data signals having a same number of gray scale values, and converts the Red, Green and Blue N-bit digital data signals into Red, Green and Blue M-bit digital data signals respectively, wherein each of N and M is an integer, M is greater than N, and numbers of gray scale values of at least two of the Red, Green and Blue M-bit digital data signals are different from each other...”

As exemplified in the specification of the present application, 3-bit R, G and B input digital data signals, which have the same number of gray scale values (i.e., 8), are converted into 5-bit R, G and B digital data signals through a lookup table. See the instant application at [0047]. Due to the conversion, the 5-bit R digital data signal has thirty two gray scale values between 0 and 31; the 5-bit G digital data signal has sixteen gray scale values between 0 and 15; and the 5-bit B digital data signal has thirteen gray scale values between 0 and 12. See id. at [0048]; Table I. In other words, at least two of the converted R, G and B digital data signals have different numbers of gray scale values to accommodate different light-emission efficiencies of R, G and B light emitting cells according to the principles of the present application. See id. at [0057] None of the cited references including Naito and Kang, singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that claim 1 and claims 5-10, which depend

from claim 1, are allowable over the cited references.

Claim 11 is allowable over the cited references in that claim 1 recites a combination of elements including, for example, “converting the Red, Green and Blue N-bit digital data signal into Red, Green and Blue M-bit digital data signals, respectively, wherein each of N and M is an integer, M is greater than N, and numbers of gray scale values of at least two of the Red, Green and Blue M-bit digital data signals are different from each other...” For similar reasons set forth with respect to claim 1, Applicants respectfully submit that claim 11 and claims 13, 14 and 16-19, which depend from claim 11, are allowable over the cited references.

Applicants believe the application is in condition for allowance and early, favorable action is respectfully solicited. If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911.

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Respectfully submitted,



Eric J. Nuss  
Registration No.: 40,106  
McKENNA LONG & ALDRIDGE LLP  
1900 K Street, N.W.  
Washington, DC 20006  
(202) 496-7500  
Attorneys for Applicant

DC:50704482.1